Renewable Energy Annual Report

Revised May 2013

Electric Provider:
Reporting Period: Calendar Year 2012

- Section 51(1) of 2008 PA 295 requires the filing of this document with the Michigan Public Service Commission.
- Many of the requested figures are available from MIRECS reports; names of which are noted within this template. If your figures agree with those within MIRECS, you may submit the MIRECS report as an attachment to this annual report. If your figures differ from those within MIRECS, please explain any discrepancies. Staff from the MPSC and MIRECS Administrator, APX, Inc., are available to help reconcile.

Section 51(1).
Within this section, list and describe actions taken by the electric provider to comply with the renewable energy standards.

a. Filings to the Commission (case numbers)

U-16608

b. Summary of actions taken during reporting period

Currently, Detroit Public Lighting Department is not generating power. The Department has purchased more than adequate RECs to meet the REC requirement (9725 RECs) for 2012 Compliance. Filed 2012 Compliance on 5/2/2013. The revised attachment A, shows the incremental cost of compliance. MWHrs were calculated based on 3 year running average. DPLD has few residential customers. Most of them are low income senior citizens. Hence, DPLD continued with the policy of not collecting Renewable Energy surcharges from the residential customers.

Section 51(2)(a).

Within this section, list the type of and number of energy credits (either renewable energy credits or incentive renewable energy credits) obtained and the MWh of electricity generated or otherwise acquired during the reporting period. Distinguish between different vintages (years) obtained.

Credits From	Renewable Energy Credits	Incentive Credits	MWh Electricity Generated/Acquired
Existing, Co. Owned, pre PA 295			
Built, Co. Owned (post PA 295)			
Contracted (credits only)	3821 (2009 Vintage) 8965 (2010 Vintage)	363 (2010 Vintage)	502,186
Contracted (energy and credits)			
Total Credits acquired	12,786	363	502,186

This data may be found in MIRECS reports titled: My Generation Report and My Credit Transfers.

Explain any differences between total credits acquired and the sum of the first four rows above.

Within this section, list the type of and number of energy credits (either renewable energy credits or incentive renewable energy credits) sold, traded or otherwise transferred during the reporting period.

Credit no longer owned	Renewable Energy Credits	Incentive Credits	List sub-account name (indicate compliance year)
Sold, traded or otherwise transferred			NA
Expired (not in compliance sub-account)			NA
Moved to compliance sub-account1	9,380 3,406	363	2012 Compliance 2013 Compliance

1Report separate compliance sub-accounts on different rows.
This data may be found in MIRECS reports titled: My Sub-Accounts (filtered by Michigan eligibility and its end date) and My Credit Transfers.

Within this section, report the total inventory of energy credits at the end of the reporting period. Inventory shall be reported by vintage year and not include credits within the current reporting year compliance sub-account.

Renewable Energy Credits	Incentive Credits	Advanced Cleaner Energy Credits
3,406 (2010 Vintage)	0	0

This data may be found in the MIRECS report titled: My Credit Breakdown.

Section 51(2)(b).
Within this section, list the number of advanced cleaner energy credits obtained and the MWh of advanced cleaner energy generated or otherwise acquired during this reporting period.

Credits From	Advanced Cleaner Energy Credits	MWh Electricity Generated/Acquired
Existing, Co. Owned, pre PA 295		
Built, Co. Owned (post PA 295)		
Contracted (credits only)		
Contracted (energy and credits)		
Total Credits acquired	0	0

This data may be found in MIRECS reports titled: My Generation Report and My Credit Transfers.

Did the percentage limits in Section 27(7) affect development of advanced cleaner energy by the electric provider? How so?

N/A

Section 51(2)(c).

Within this section, list each renewable energy system (RES) and advanced cleaner energy system (ACES) owned, operated or controlled by the electric provider. List the capacity of each system, the amount of electricity generated by each system and the percentage of electricity which was generated from renewable energy (RE) or advanced cleaner energy (ACE).

System Name[1]	System Type (RES or ACES)	Nameplate Capacity (MW)	Electricity Generated (MWh)	% of Electricity generated by RE/ACE
None				

[1]System name should agree with the project name listed within MIRECS.
This data may be found in the Project Management module within MIRECS.

Within this section, list the renewable energy system (RES) and advanced cleaner energy systems (ACES) the electric provider is purchasing energy credits from. These include purchase power agreements. However, unbundled (credit only) purchases do not need to be listed here. Projects (generators) serving multijurisdictional electric providers should be listed here.

System Name	System Type (RES or ACES)	Electricity Purchased (MWh)	Energy Credits Purchased[1]	Allocation Factor and Method
Credits Only				

[1]Distinguish between different types of credits.
Allocation Factor and Method: For use if 100% of system output is not purchased. For instance, a system selling to multiple parties: list how the energy and credits are allocated – if by percentage, list the percentage as well.
Allocation Factor and Method: If used by multijurisdictional electric providers please include which percentage of energy and credits are to be distributed to Michigan (list allocation method as well, for example: system load).

Section 51(2)(d).

Within this section, list whether, during the reporting period, the electric provider entered into a contract for, began construction on, continued construction of, acquired, or placed into operation a renewable energy (RE) system or advanced cleaner energy (ACE) system.

System Name[1]	Resource (technology, RE/ACE)		Nameplate Capacity (MW)	Construction start date or acquisition date	Commercial operation date	Owned by electric provider?
None						

[1]System name should agree with the project name listed within MIRECS.

Dates may be forecast.

Section 51(2)(e).

Within this section, list the total expenditures incurred during the reporting period to comply with the renewable energy standards. Also, electric providers with an approved or planned renewable energy surcharge (as per Section 45), list the incremental cost of compliance (ICC) incurred during the reporting period.

Total Transfer Cost for 2012	Total ICC for 2012
$2,362.40	$4,704.00

Transfer Cost: The component of renewable energy and capacity revenue recovered from PSCR clause.

Capital Expenditures for 2012
0

Capital Expenditure: An investment in a renewable energy capital asset.

List the forecasted total expenditures for the remaining plan period. Also, electric providers with an approved or planned renewable energy surcharge (as per Section 45), list the forecasted incremental cost of compliance (ICC) for the remaining plan period.

Forecast of total remaining expenditures for the residual plan period of 2013-2029	Forecast of the ICC for the remaining plan period (2013-2029)
See Attachment A	Attachment A

Total Expenditures: ICC + Transfer Cost

Section 51(2)(f).

Within this section, list the method and the retail sales in MWh for the reporting period.

List the Method: either average of 2009-2011 retail sales or the 2011 weather normalized retail sales.

Average of 2009-2011 retail sales

The method chosen should be consistent with the method approved in the initial plan case from 2009. All sales are retail (net of wholesale).

(A) List the sales in MWh based on the method selected above. Please show the calculation of this figure (including listing the sales of each year if the three year average method is used).

486,249 MWh Average of 2009-2011 retail sales = (501,644 + 502,459 + 454,645) / 3 = 486,249 MWh

(B) Inventory: List the number of non-expired energy credits available after submittal of the 2012 MIRECS compliance report. These energy credits may have 2010, 2011 and 2012 vintages. Do not include credits within the 2012 compliance sub-account. This number may differ from the inventory figure given in **Section 51(2)(a)** above. List green pricing program, energy optimization and advanced cleaner energy credits separately and only if they are to be used for RPS compliance in a future year.

3406

(C) 2012 Renewable Energy: List the number of energy credits with a 2012 vintage. Include 2012 vintage energy credits used for compliance in 2012 as well as those 2012 vintage energy credits not yet used for compliance. Again, take into account green pricing program credits and energy optimization or advanced cleaner energy credit substitutions with a 2012 vintage.

List credits from energy generated during 2012 (C)
0

Calculate the estimated renewable energy percentage. Figure above (C) divided by sales in MWh above (A).

Estimated Renewable Energy Percentage based on 2012 vintage energy credits (C divided by A)
0

(D) Compliance: List the energy credits used for compliance for the 2012 compliance year. This number should agree with the compliance requirement listed in the 2012 compliance subaccount in MIRECS. Take into account any energy optimization or advanced cleaner energy credit substitutions and limits on their use.

9725

Calculate the renewable energy percentage. Figure above divided by sales in MWh above (D divided by A).

2%

Does the "energy credits used for compliance in this reporting year" figure above include any credits representing energy generated within 120 days after the start of the next calendar year? Yes/No.

No

If yes, how many credits from 2013 generation are included?

To be used for 2013 Compliance Year

Similar to (A) from Section 51(2)(f) above.

List the sales in MWh based upon the same method selected above. Sales should either be the average of 2010-2012 retail sales or the 2012 weather normalized retail sales. Please show the calculation of this figure (including listing the sales of each year if the three year average method is used).

460,840 MWh

Average of 2010-2012 retail sales = (502,459 + 454,645+ 425,417) / 3 = 460,840 MWh

$8.50/REC

Attachment A

Renewable Energy Plan Surcharge Summary - Full Compliance

Revised on 6/24/2013

	Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2021	2023	2024	2025	2026	2027	2028	2029
XXX Sales Forecast (XXX = Weather Normalized or 3-yr running average)	MWH	539,358	506,304	486,249	486,249	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840	460,840
RPS Requirement (10% renewable energy portfolio from year 2015)	MWH	0	0	0	9,725	15,208	23,042	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084
RPS Required RECs																						
(-) RECs from existing Renewable Energy Supply (Pre-RPS)	MWH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Required RECs	MWH	0.0	0.0	0.0	9,725	15,208	23,042	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084	46,084
RPS Renewable Energy Credit Compliance																						
Required RECs	MWH	0	0	0	9725	15208	23042	46084	46084	46084	46084	46084	46084	46084	46084	46084	46084	46084	46084	46084	46084	46084
RECs Obtained	MWH	0.0	0.0	0.0	9743	15190	23000	46000	46000	46000	46000	46000	47000	46000	46000	46000	46000	46000	46000	46000	46000	46000
RECs Carryover Applied	MWH	0.0	0.0	0.0	0.0	18.0	0.3	-41.7	-125.7	-209.7	-293.7	-377.7	-461.7	454.3	370.3	286.3	202.3	118.3	34.3	-49.7	-133.7	-217.7
Total RECs Available	MWH	0.0	0.0	0.0	9743	15208	23000	45958	45874	45790	45706	45622	46538	46454	46370	46286	46202	46118	46034	45950	45866	45782
RECs Compliance Balance Exceeds(shortage)	MWH	0.0	0.0	0.0	18.0	0.3	-41.7	-125.7	-209.7	-293.7	-377.7	-461.7	454.3	370.3	286.3	202.3	118.3	34.3	-49.7	-133.7	-217.7	-301.7
RECs Compliance Percentage (%)	%				100%	100%	100%	100%	100%	99%	99%	99%	101%	101%	101%	100%	100%	100%	100%	100%	100%	99%
RECs Eligible for Carryover	MWH	0	0	0	18.0	0.3	-41.7	-125.7	-209.7	-293.7	-377.7	-461.7	454.3	370.3	286.3	202.3	118.3	34.3	-49.7	-133.7	-217.7	-301.7
RECs Available for Sale	MWH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Revenue Requirement																						
Build/BOT	$1,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPA	$1,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REC Purchases (Sales)	$1,000	$ -	$ -	$ -	$ 5	$ 128	$ 196	$ 391	$ 391	$ 391	$ 391	$ 391	$ 400	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391
Total	$1,000	$ -	$ -	$ -	$ 5	$ 128	$ 196	$ 391	$ 391	$ 391	$ 391	$ 391	$ 400	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391
RECs Obtained																						
Generation Based	MWH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Build/BOT	MWH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPA	MWH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchase	MWH	-	-	-	9,380	15,000	23,000	46,000	46,000	46,000	46,000	46,000	47,000	46,000	46,000	46,000	46,000	46,000	46,000	46,000	46,000	46,000
Incentive RECs (SB 213 Sec 39(2))	MWH	0.0	0.0	0.0	363.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	MWH	-	-	-	9,743	15,208	23,000	46,000	46,000	46,000	46,000	46,000	47,000	46,000	46,000	46,000	46,000	46,000	46,000	46,000	46,000	46,000
Forecasted Transfer Price per MWH	$/MWH	0.00	0.00	0.00	0.48	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50
Amount Recovered thru PSCR Transfer Price x Volume of Energy	$1,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Incremental Cost of Compliance	$1,000	$ -	$ -	$ -	$ 5	$ 128	$ 196	$ 391	$ 391	$ 391	$ 391	$ 391	$ 400	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391	$ 391
Customer Forecast																						
Residential	Count	85	85	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
Secondary	Count	1312	1312	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928	928
Primary	Count	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
Total	Count	1488	1488	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146	1146
Non-Volumetric Surcharge/ Meter (or customer) Forecast																						
Residential	$/Meter/month	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Secondary	$/Meter/month	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58
Primary	$/Meter/month	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50	187.50
Total		204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08	204.08
Maximum Surcharge (all rate classes at caps)																						
Residential	$1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary	$1,000	196	261	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185
Primary	$1,000	154	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205
Total	$1,000	349	466	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389
Planned Surcharge																						

$8.50/REC

Attachment A

Renewable Energy Plan Surcharge Summary - Full Compliance

Revised on 6/24/2013

Residential	$1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary	$1,000	196	261	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185
Primary	$1,000	154	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205	205
Total	$1,000	349	466	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389	389
Actual Collected Total	$1,000	0.00	101.44	268.04	174.64																	
Year End Regulatory Liability Balance																						
Proposed Minimum	$1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forecast	$1,000	0	466	369	751	1002	1174	1143	1107	1072	1038	1005	965	934	905	876	848	821	794	769	744	720
Carrying Charges (short-term interest)	$1,000	0	0	3	11	22	29	34	33	32	31	30	29	28	27	26	25	25	24	23	22	22
Total Balance	$1,000	0	101	366	740	980	1145	1109	1074	1040	1007	975	936	906	877	849	822	796	771	746	722	699

Blue = calculated field